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TITLE: ELECTRODE FOR OXYGEN ELECTRODE
REACTION AND MANUFACTURE
THEREOF

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INVENTOR- INFORMATION:

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ABSTRACT:

PURPOSE: To stably realize the theoretical value of equilibrium oxygen electrode potential and to obtain an electrode having strong structure, excellent corrosion resistance at low cost by supporting an active layer comprising platinum and iridium oxide with an electrode substrate made of stainless steel, titanium, or nickel.

CONSTITUTION: An active layer comprising platinum and iridium oxide is supported with an electrode substrate made of stainless

steel, titanium, or nickel. The active layer is formed in the contact state, or the mixed state of platinum and iridium oxide or in the form of two layers of platinum and iridium oxide. When it is formed with two layers, either one can be used as the under layer. The electrode substrate is preferable to be a plate or porous. The theoretical value of equilibrium oxygen electrode potential is stably realized and an electrode having strong structure and excellent corrosion resistance can be obtained at low cost.

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